

FE 168

Diagram No. 8201-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT (HYDROGRAPHIC)

Type of Survey Field Examination

Field No.

Office No. FE-168

LOCALITY

State Alaska

General Locality .. Zimovia Strait

Locality

1959

CHIEF OF PARTY

H.D. Reed Jr.

LIBRARY & ARCHIVES

DATE May 6, 1959

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date in the new format is the actual date of survey. This material was previously registered as;

FE No.2 1959

FE 168

F E No. 2 1959

FE-168

Diag. Cht. No. 8201-3.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	HYDROGRAPHIC
Field No. Special Survey	5-59
Office No.	F.E.No. 2- 1959
LOCALITY	
State	ALASKA
General locality	ZIMOVIA STRAIT
Locality	
1959	
CHIEF OF PARTY	
H. D. REED, JR.	
LIBRARY & ARCHIVES	
DATE	MAY 6 1959

USCOMM-DC 5087

F E No. 2
1959

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. F.E. #2 (1959)

Field No. Special Survey 5-59

State Alaska ✓

General locality Zimovia Strait ✓

Locality _____

Scale 1:10,000 Date of survey 18 April 1959 ✓

Instructions dated 2 March 1959 ✓

Vessel Launch #88

Chief of party H. D. Reed, Jr. ✓

Surveyed by Kelly E. Taggart ✓

Soundings taken by fathometer, graphic recorder, hand lead, wire

Fathograms scaled by C. E. Strom

Fathograms checked by K. E. Taggart

Protracted by K. E. Taggart

Soundings penciled by K. E. Taggart ✓

Soundings in fathoms ~~feet~~ at MLW MLLW *and are true depths.*

REMARKS: _____

DESCRIPTIVE REPORT TO ACCOMPANY

SPECIAL SURVEY 5-59 (FE. #2 1959).

ZIMOVIA STRAIT, ALASKA

USC&GSS LESTER JONES

H. D. REED, JR. COMDG.

SCALE 1:10,000

A. PROJECT

Work on Special Survey 5-59 was performed as per Director's Instructions 22/MEK, S-2-LJ, dated 2 March 1959 to Commanding Officer, Ship LESTER JONES.

B. SURVEY LIMITS AND DATES

The purpose of this survey was to conduct a hydrographic examination of an uncharted rock located in the narrow buoyed channel in the south end of Zimovia Strait. Existence of this rock was reported to the U. S. Coast Guard during the fall of 1958. The reported location of the obstruction was in the vicinity of channel buoy "N8" and the field work was limited to this locality. Field work was begun on 17 April 1959 and completed on 18 April.

C. VESSELS AND EQUIPMENT

C&GS Launch #88 operating from the Ship LESTER JONES was used in this survey. Soundings were obtained using 808 Fathometer No. 102S.

D. TIDE STATION

A tide staff was established at Olive Cove, about 2 miles from the area of the field work, and was read every half hour during the survey. (See tidal note attached to this report.)

E. SMOOTH SHEET

Soundings are plotted on a combination boat-smooth sheet. The projection was constructed prior to the start of the 1959 field season. This sheet was on a scale of 1:10,000 as prescribed by project instructions. In order to show the results of the survey in more detail, a plot of the soundings was also made on tracing cloth on a scale of 1:7,500.

F. CONTROL STATIONS

The following triangulation stations established by C. G. Q. in 1916 were recovered and used for control of the survey: TIDE, LUTE, JIG, and VILLAGE.

F. CONTROL STATIONS - Cont.

Hydrographic Station BEA (Light "6") was located by sextant fixes and cuts taken from the launch.

H. SOUNDINGS

Most depths were measured with the 808 fathometer. The least depth on the obstruction was determined with the hand lead. Considerable time was spent drifting over the area in the launch with two hand leads to make certain of the least depth on the rock.

I. CONTROL OF HYDROGRAPHY

Position control was by standard three point fixes using sextant angles taken from the launch.

J. ADEQUACY OF SURVEY

This survey is considered to be complete and adequate for the purpose for which it was made. It is believed that sufficient information has been obtained to verify the existence of the reported obstruction. A more detailed examination would require wire dragging and this party is not equipped to perform that type of operation.

L. COMPARISON WITH PRIOR SURVEY

Hydrographic Survey H-4254 (1922), scale 1:10,000, In general, soundings from the above survey agreed very well with special survey 5-59 for the common area. However, the hand lead soundings on H-4254 have completely missed this obstruction as well as the one about 100 meters NW of it, shown on chart 8161.

Special Survey 5-59 is considered to be adequate to supersede survey H-4254, in their common area.

N. DANGERS AND SHOALS

A least depth of 0.8 fm (reduced) was found about 55 meters north of Buoy "N 8". This was a hand lead sounding and was checked with the fathometer. (See position 28a) The area was drifted over using two hand leads and no soundings of less than the above depth were found. The position of this sounding checks fairly well with that reported by the Coast Guard. However, the obstruction appears to be somewhat flattened on top instead of rising as a sharp pinnacle.

P. AIDS TO NAVIGATION

A fixed aid to navigation located during the survey is being reported separately on Form 56 ~~(L-388/959)~~ Lt. #6. Lat. $56^{\circ}12' + 468 \text{ m.}$
Long $132^{\circ}15' + 102 \text{ m.}$

Buoy "N 8" was located by sextant fix, (see position 29a), in 6.1 fathoms of water, Lat. $56^{\circ}11'.94$, Long. $132^{\circ}15'.53$

Z. TABULATION OF APPLICABLE DATA

The following records are being forwarded separately. ✓

Form 258 - Level Record - Tide Station
Form 277 (1 sheet) Tide Staff Recordings
Form 526 (4 each) Recovery Note Triangulation Station
Form 681 (in duplicate) Report - Tide Station


KELLY E. TAGGART
LT C&GS

STATISTICS

SPECIAL SURVEY 5-59 ✓

"a" day, Launch #88

No positions - 38

Hand lead soundings - 3

Nautical miles of sounding line - 2.3

Area - .03 sq. nautical mile

TIDE NOTE

SPECIAL SURVEY 5-59

A tide staff was established at Olive Cove, Zimovia Strait, Lat. $56^{\circ} 11'.5$, Long. $132^{\circ} 19'.1$ and was connected to existing bench marks established in 1916. Starting with the old elevation for BM 2, the value of MLLW was found to be 2.5 feet below zero on the tide staff, and the tide reducers for the survey were computed using this value. No time or height corrections were applied.

APPROVAL SHEET

Special Survey 5-59 and accompanying records have been examined by me and are approved. No additional field work is recommended at this time.



H. D. REED, JR.
LCDR C&GS
Chief of Party

TIDE NOTE FOR HYDROGRAPHIC SHEET

28 April 1959

Chart Division: R. H. Carstens:

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET FE 2 1959

Locality Zimovia Strait, Alaska

Chief of Party:

Plane of reference is mean lower low water, reading
-2.5 ft. on tide staff at Olive Cove
19.6 ft. below B.M. 1 (1916)

Height of mean high water above plane of reference is 15.7 feet.

Condition of records satisfactory except as noted below:


Signature

Chief, Tides Branch

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..F..E..No.2-1959

Records accompanying survey: Smooth sheets;

boat sheets .1...; sounding vols. .1...; wire drag vols.;

Descriptive Reports .1...; graphic recorder envelopes .1...;

special reports, etc. .1-Tracing cloth sheet.....

.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet³⁸

Number of positions checked⁸

Number of positions revised⁰

Number of soundings revised
(refers to depth only)⁰

Number of soundings erroneously spaced⁰

Number of signals erroneously plotted
or transferred⁰

Topographic details Time⁰

Junctions Time⁰

Verification of soundings from
graphic record Time^{1/2}

Special adjustments Time⁰

Verification by *[Signature]* Total time ..6.. Date 29 April 1959

Reviewed by *[Signature]* Time ..1... Date 29 April 1959

Inspected by R.H. Carstens. 29 April 1959.

REVIEW OF FIELD EXAMINATION NO. 2, 1959

The field examination was made in compliance with the Director's Instructions Special Project 5-59, dated 2 March 1959.

Soundings: 808 depth recorder

Control: Sextant Fixes
on shore signals
(triangulation
stations)

The purpose of the field examination was to locate a sunken rock reported in Notice to Mariners No. 2, 1959.

The results listed below are plotted on a combination, boat-smooth sheet, scale 1:10,000.

1. A least depth of 0.8 fathom was found on a rock in lat. $56^{\circ}11.97$, long. $132^{\circ}15.52'$ which agrees with a sunken rock charted in the same position and mentioned in N to M No. 2, 1959.

2. Another shoal spot with a depth of 1.9 fathoms (808 Depth Recorder) was obtained about 115 m northwest of the 0.8 fathom rock in lat. $56^{\circ}12.03$, long. $132^{\circ}15.58$.

3. The fixed aid, "Light 6" (Light List page 224) was located by this field examination in lat. $56^{\circ}12.26'$, long. $132^{\circ}15.1'$ which is about 100 meters west of the charted position (Chart 8161).

4. The floating aid, buoy N"8" was located by this field examination in lat. $56^{\circ}11.95'$, long. $132^{\circ}15.53'$ which is about 60 meters southwest of the position given by Notice to Mariners No. 2, 1959 and so charted. (Chart 8161).

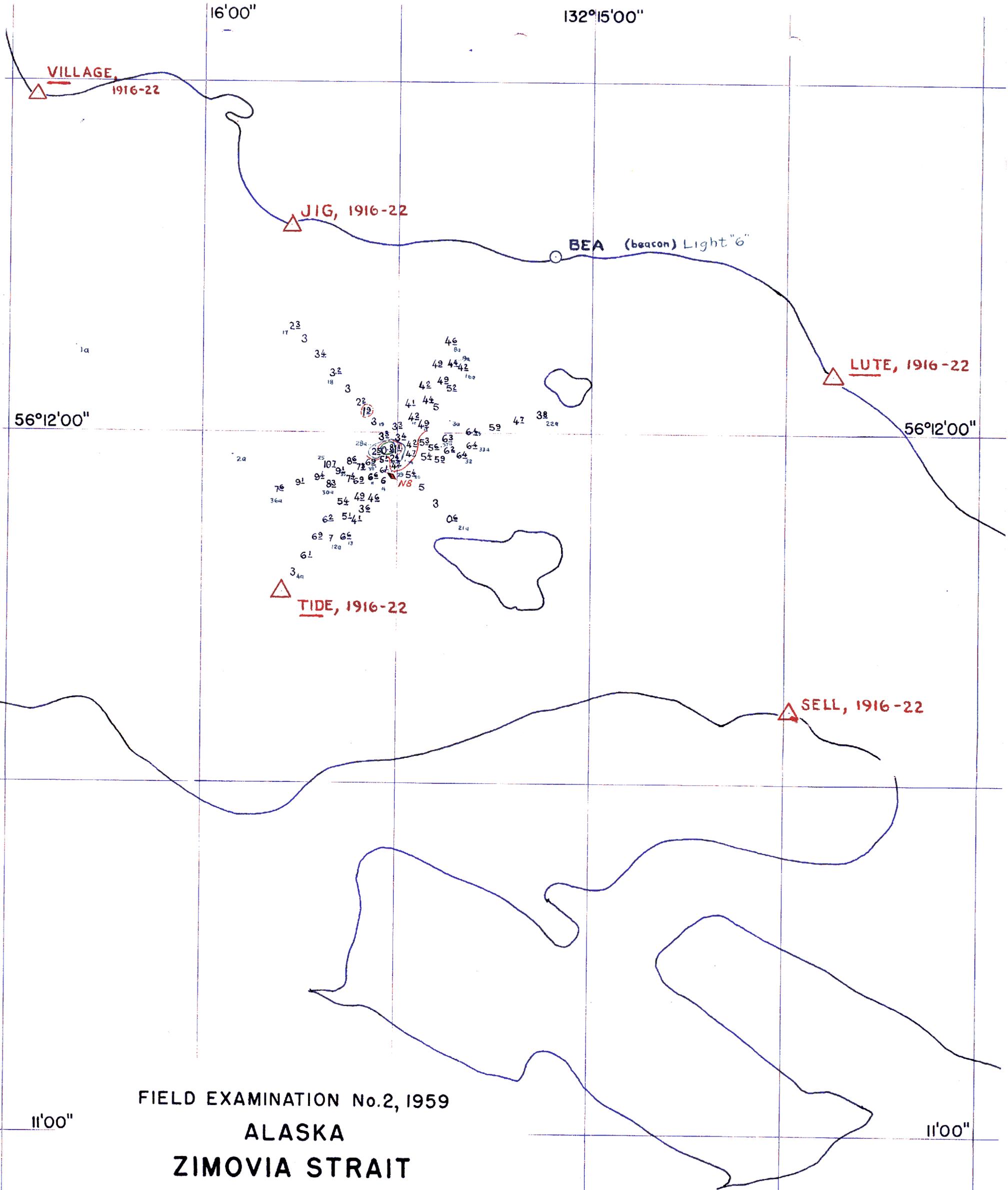
The depths obtained by F. E. 2 (1959) are in good agreement with those of the prior basic survey H-4254 (1922).

The hydrographic work is adequate for the purpose intended and should supplement the prior basic survey H-4254 (1922) within the common area.

The Descriptive Report is complete and adequately covers all matters pertaining to this examination.

Reviewed by: L. S. Straw
29 April 1959

Inspected by: R. H. Carstens



FIELD EXAMINATION No.2, 1959

ALASKA

ZIMOVIA STRAIT

Date of Survey April, 1959

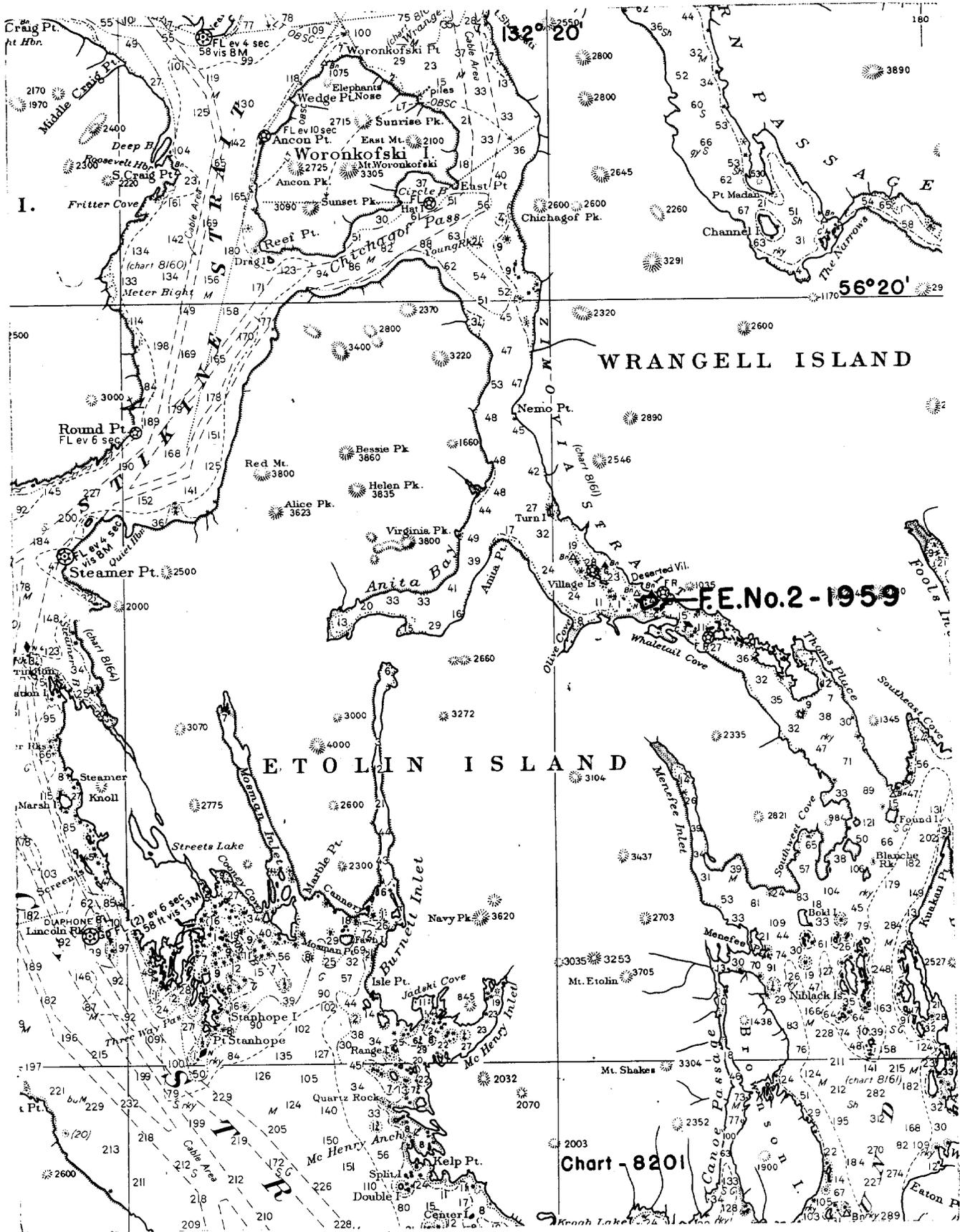
Scale 1 : 10,000

Chief of Party H. D. Reed Jr.

Surveyed by K. E. Taggart

SOUNDINGS IN FATHOMS AND TENTHS
 at Mean Lower Low Water
 and are true depths

Field No.	Special Survey 5-59	Proj. No.	F.E. No. 2 (1959)
Scale	1:10,000	Flats	Vertical
Projection	KET	HDR	HDR
Tid. Sta.	KET	HDR	HDR
Topo. Sta.	None		
Hydre. Sta.	KET	HDR	HDR
Datum	NA. 1927		
Ref. Sta.	Village 1916-22		
Lat.	56°12'28.798" + 890.7		
Long.	132°16'25.852" + 445.7		



Applied to Inset of chart 8161 ^{CRW}
8-12-57

Redet Pas

L 349 1759

56 12 468

132 15 102